

MD 218 IS ASSUMED TO RUN  
IN AN EAST-WEST DIRECTION

#### PROPOSED LED SIGNALS

1,4  
R  
Y  
G  
8"

2,3  
R  
Y  
G  
12"

#### PROPOSED VIDEO DETECTION

a, b

#### PROPOSED OPTICALLY PROGRAMMED SIGNALS

7,8  
R  
Y  
G  
12"

#### LINE HEIGHTS

LH 1 - (GUY) 21'-6"  
LH 2 - (GUY) 20'-0"

#### PROPOSED SIGNS

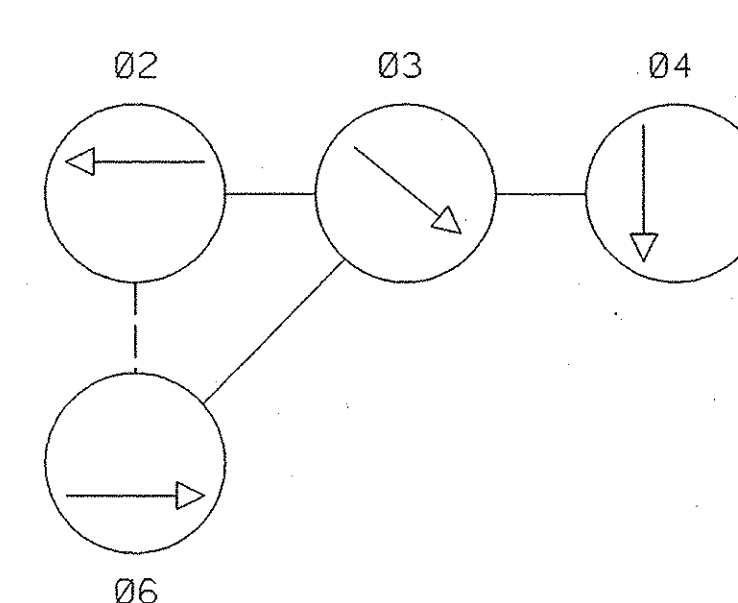
11  
ONLY  
R3-5(R)  
(30"x36")

12  
ONLY  
R3-5(L)  
(30"x36")

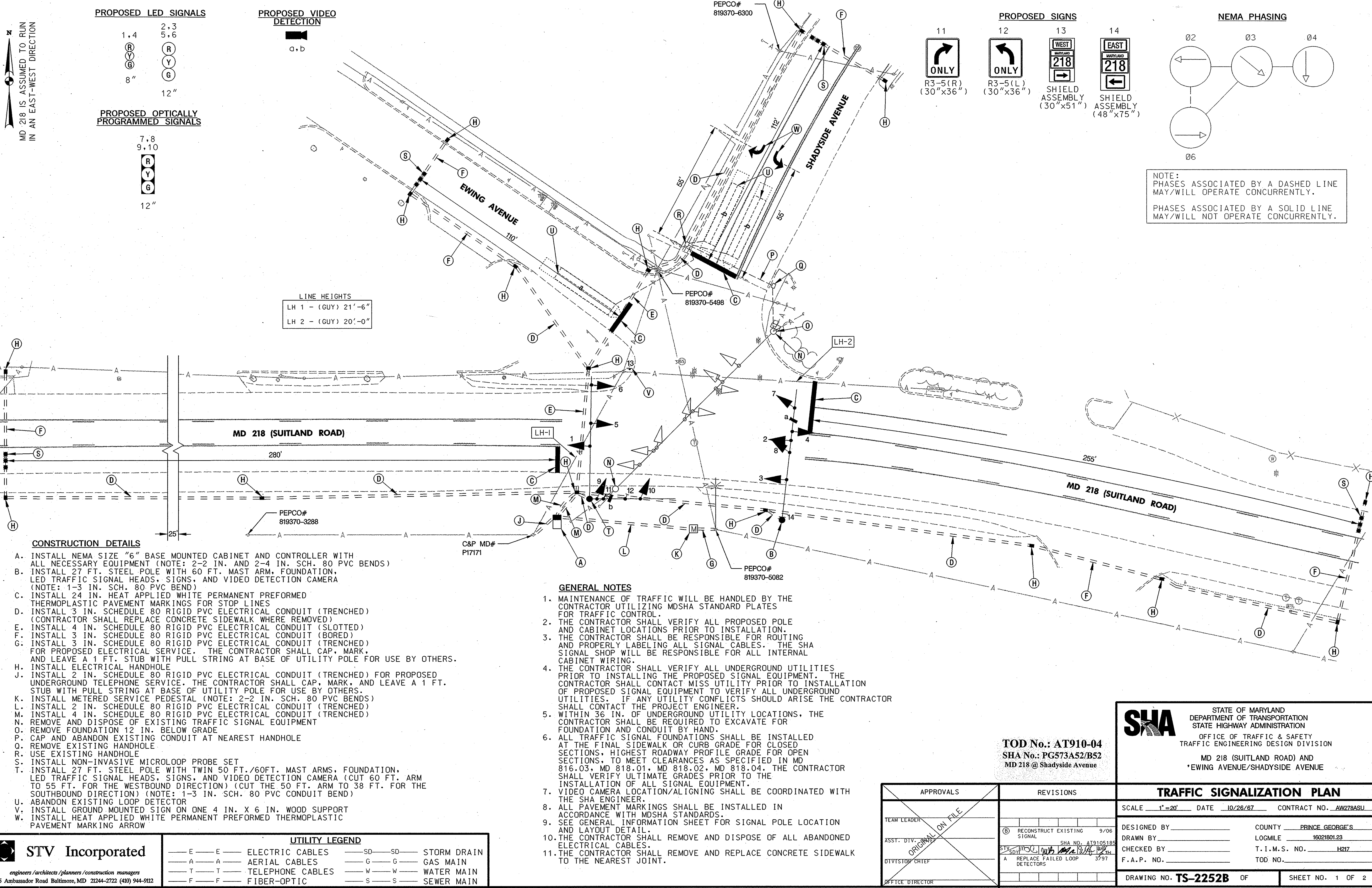
13  
WEST  
218  
SHIELD  
ASSEMBLY  
(30"x51")

14  
EAST  
218  
SHIELD  
ASSEMBLY  
(48"x75")

#### NEMA PHASING



NOTE:  
PHASES ASSOCIATED BY A DASHED LINE  
MAY/WILL OPERATE CONCURRENTLY.  
PHASES ASSOCIATED BY A SOLID LINE  
MAY/WILL NOT OPERATE CONCURRENTLY.



#### CONSTRUCTION DETAILS

- INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2 IN. AND 2-4 IN. SCH. 80 PVC BENDS)
- INSTALL 27 FT. STEEL POLE WITH 60 FT. MAST ARM, FOUNDATION, LED TRAFFIC SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA (NOTE: 1-3 IN. SCH. 80 PVC BEND)
- INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINES
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) (CONTRACTOR SHALL REPLACE CONCRETE SIDEWALK WHERE REMOVED)
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED)
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED ELECTRICAL SERVICE. THE CONTRACTOR SHALL CAP, MARK, AND LEAVE A 1 FT. STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
- INSTALL ELECTRICAL HANDHOLE
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. THE CONTRACTOR SHALL CAP, MARK, AND LEAVE A 1 FT. STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
- INSTALL METERED SERVICE PEDESTAL (NOTE: 2-2 IN. SCH. 80 PVC BENDS)
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT
- REMOVE FOUNDATION 12 IN. BELOW GRADE
- CAP AND ABANDON EXISTING CONDUIT AT NEAREST HANDHOLE
- REMOVE EXISTING HANDHOLE
- USE EXISTING HANDHOLE
- INSTALL NON-INVASIVE MICROLOOP PROBE SET
- INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./60FT. MAST ARMS, FOUNDATION, LED TRAFFIC SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA (CUT 60 FT. ARM TO 55 FT. FOR THE WESTBOUND DIRECTION) (CUT THE 50 FT. ARM TO 38 FT. FOR THE SOUTHBOUND DIRECTION) (NOTE: 1-3 IN. SCH. 80 PVC CONDUIT BEND)
- ABANDON EXISTING LOOP DETECTOR
- INSTALL GROUND MOUNTED SIGN ON ONE 4 IN. X 6 IN. WOOD SUPPORT
- INSTALL HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW

#### GENERAL NOTES

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD PLATES FOR TRAFFIC CONTROL.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING THE PROPOSED SIGNAL EQUIPMENT. THE CONTRACTOR SHALL CONTACT MISS UTILITY PRIOR TO INSTALLATION OF PROPOSED SIGNAL EQUIPMENT TO VERIFY ALL UNDERGROUND UTILITIES. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- SEE GENERAL INFORMATION SHEET FOR SIGNAL POLE LOCATION AND LAYOUT DETAIL.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
- THE CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE SIDEWALK TO THE NEAREST JOINT.

#### UTILITY LEGEND

— E — E — ELECTRIC CABLES — SD — SD — STORM DRAIN  
— A — A — AERIAL CABLES — G — G — GAS MAIN  
— T — T — TELEPHONE CABLES — W — W — WATER MAIN  
— F — F — FIBER-OPTIC — S — S — SEWER MAIN

TOD No.: AT910-04  
SHA No.: PG573A52/B52  
MD 218 @ Shadyside Avenue

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 218 (SUITLAND ROAD) AND  
EWING AVENUE/SHADYSIDE AVENUE

#### TRAFFIC SIGNALIZATION PLAN

SCALE 1"=20' DATE 10/26/67 CONTRACT NO. AW278ASU

DESIGNED BY \_\_\_\_\_ COUNTY PRINCE GEORGE'S  
DRAWN BY \_\_\_\_\_ LOGMILE 16021801.23  
CHECKED BY \_\_\_\_\_ T.I.M.S. NO. H217  
F.A.P. NO. \_\_\_\_\_ TOD NO. \_\_\_\_\_

DRAWING NO. TS-2252B OF SHEET NO. 1 OF 2

**STV Incorporated**

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